	Application No.	Applicant(s)	
Notice of Allowability	10/774,591	MIYAMOTO ET AL.	(900)
	Examiner	Art Unit	
	Corey M. Broussard	2835	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in to b) or other appropriate commun RIGHTS. This application is sul	his application. If not included ication will be mailed in due co	urse. THIS
1. \boxtimes This communication is responsive to <u>application filed 2/10</u>	<u>0/2004</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .			
3. \boxtimes The drawings filed on <u>10 February 2004</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	re been received. re been received in Application	No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a MENT of this application.	reply complying with the requi	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	nitted. Note the attached EXAN ves reason(s) why the oath or c	MINER'S AMENDMENT or NO leclaration is deficient.	TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mu			
(a) \square including changes required by the Notice of Draftspe		(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		" Off " f	
(b) including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or II	n the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	drawings in the front (not the balance).	ack) of
7. DEPOSIT OF and/or INFORMATION about the depattached Examiner's comment regarding REQUIREMENT	OSIT OF BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. No OGICAL MATERIAL.	te the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 2-04, 5-05, 6-05) 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material) 6. Interview Sur Paper No./M /08), 7. Examiner's A	rmal Patent Application (PTO- nmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allow	
	Alas	ANATOLY WORTMAN PRIMARY WAMINE	∤ R

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-20 allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter: The allowability resides in the overall structure of the device as recited in independent apparatus claims 1, 2, 3, 10 and at least in part, because claim 1 recites: "...a computer for output used to output said management information managed by said processor for management ... said processor for management is arranged on the side face of said first disk drive box body so as not to prevent the intervals for ventilation between the plural disk drives within said first disk drive box body; said computer for output is arranged on the side face of said second disk drive box body so as to be pulled out such that no intervals for ventilation between the plural disk drives within said second disk drive box body are prevented...", claim 2, recites: "...a computer for output used to output said management information managed by said processor for management ... said processor for management is arranged on the side face of said first disk drive box body so as not to prevent the intervals for ventilation between the plural disk drives within said first disk drive box body; said computer for output is rotatably arranged on the rear face side of said front door so as not to prevent the intervals for ventilation between said plural disk adapter boards...", claim 3 recites: "...a computer for output used to output said management information managed by said processor for management ... said computer for output is pulled out of said disk array

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box body...", and claim 10 recites: "...computer for output used to output said management information managed by said processor for management ... said computer for output is rotatably arranged on the rear face side of said front door...".

The aforementioned limitations in combination with all remaining limitations of claims 1, 2, 3, and 10 respectively are believed to render said claims 1, 2, 3, 10 and all claims dependent therefrom patentable over the art of record.

The closest reference to the present invention is believed to be Kimura et al. (PN 5,414,591).

Kimura teaches wherein plural disk drives for storing data are spaced at intervals for ventilation and are arranged in a matrix shape, but did not disclose "a computer for output used to output said management information managed by said processor for management; said processor for management is arranged on the side face of said first disk drive box body so as not to prevent the intervals for ventilation between the plural disk drives within said first disk drive box body; said computer for output is arranged on the side face of said second disk drive box body so as to be pulled out such that no intervals for ventilation between the plural disk drives within said second disk drive box body are prevented" or "a computer for output used to output said management information managed by said processor for management; said processor for management is arranged on the side face of said first disk drive box body so as not to prevent the intervals for ventilation between the plural disk drives within said first disk drive box body; said computer for output is rotatably arranged on the rear face side of said front door so as not to prevent the intervals for ventilation between said plural disk

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adapter boards" or "a computer for output used to output said management information managed by said processor for management; said computer for output is pulled out of said disk array box body" or "computer for output used to output said management information managed by said processor for management; said computer for output is rotatably arranged on the rear face side of said front door".

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Melane et al. (PN 6,129,434) teaching an electronic support enclosure similar to the enclosure of the instant application. Lee et al. (US Pub 2002/0196601) teaching of a disk drive array with a processor for management. Papa (PN 6,175,490), Diebel (PN 6041851), Melane (PN 6,039,414), Akiyama (JP 07261874), and Gill (PN 5,388,032) demonstrating alternative disk array designs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey M. Broussard whose telephone number is 571 272 2799. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on 571 272 2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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